

FIG 1A (prior art)

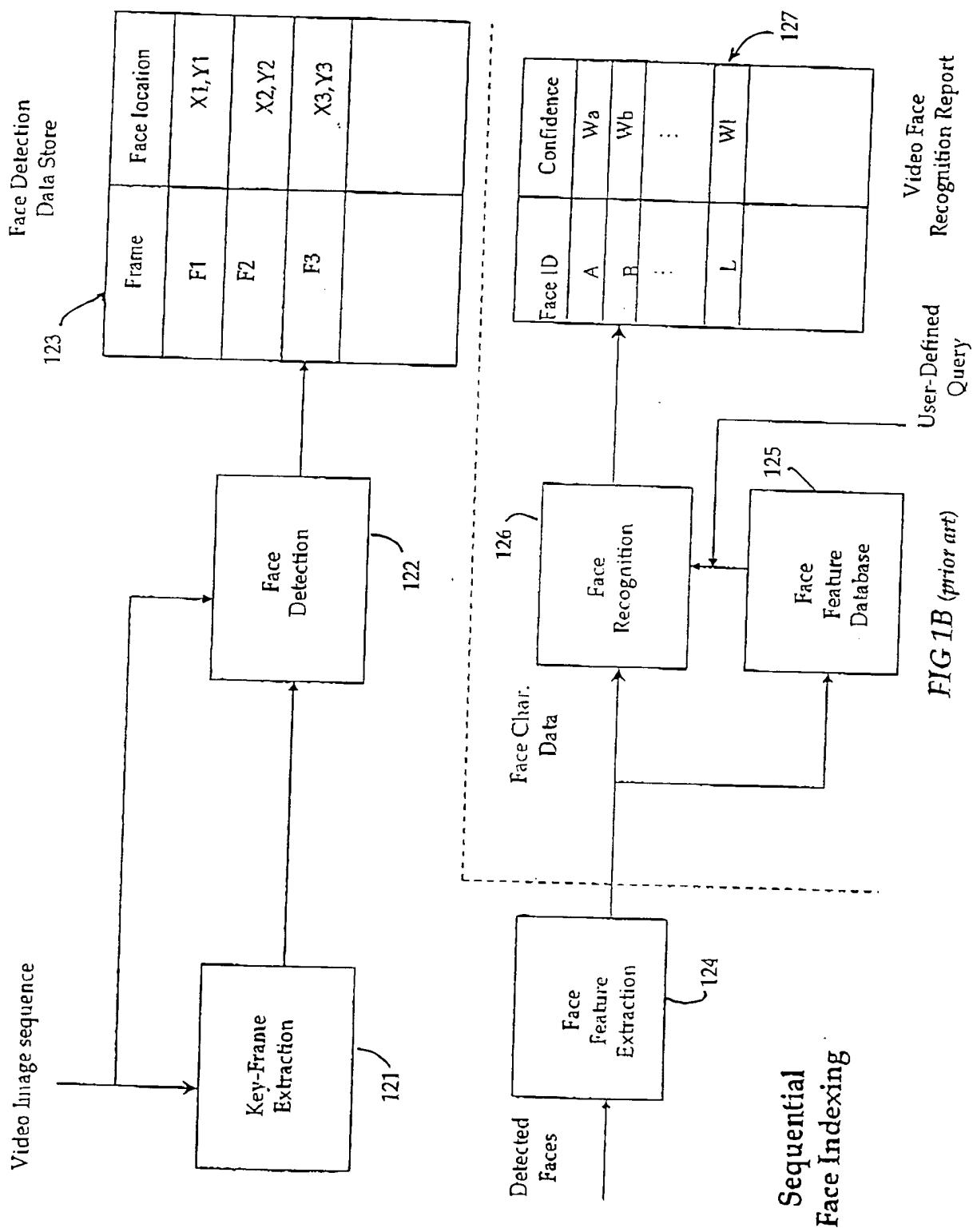
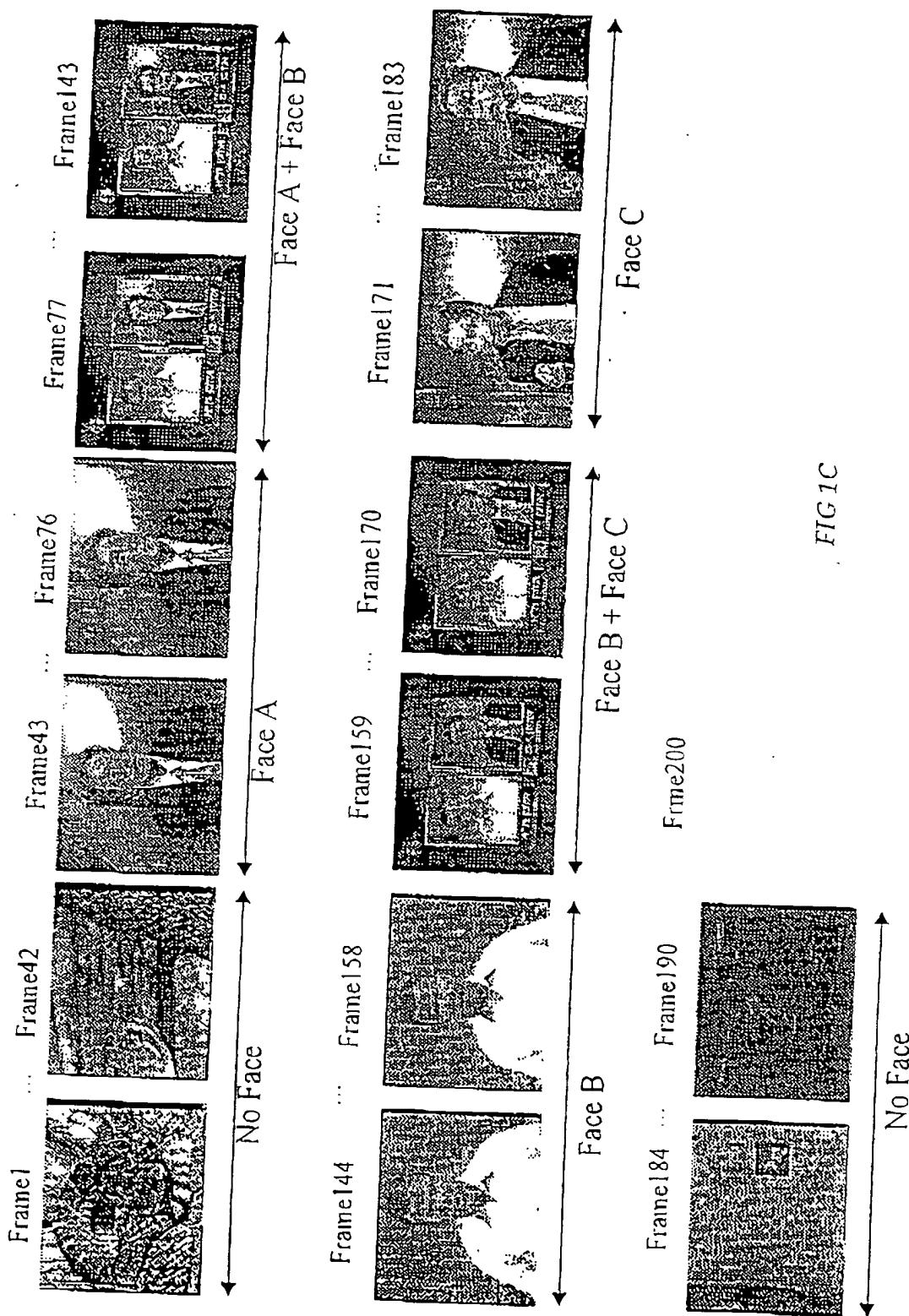


FIG 1B (prior art)

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Face Instance	Frame Index	Bounding Rectangle
I_1	Frame 43	R_1
...	...	...
I_33	Frame 76	R_k
I_34	Frame 77	R_{k+1}
I_35	Frame 77	...
I_36	Frame 78	R_n
...	...	R_{n+1}
I_198	Frame 143	R_s
...	...	...

FIG 1D (prior art)

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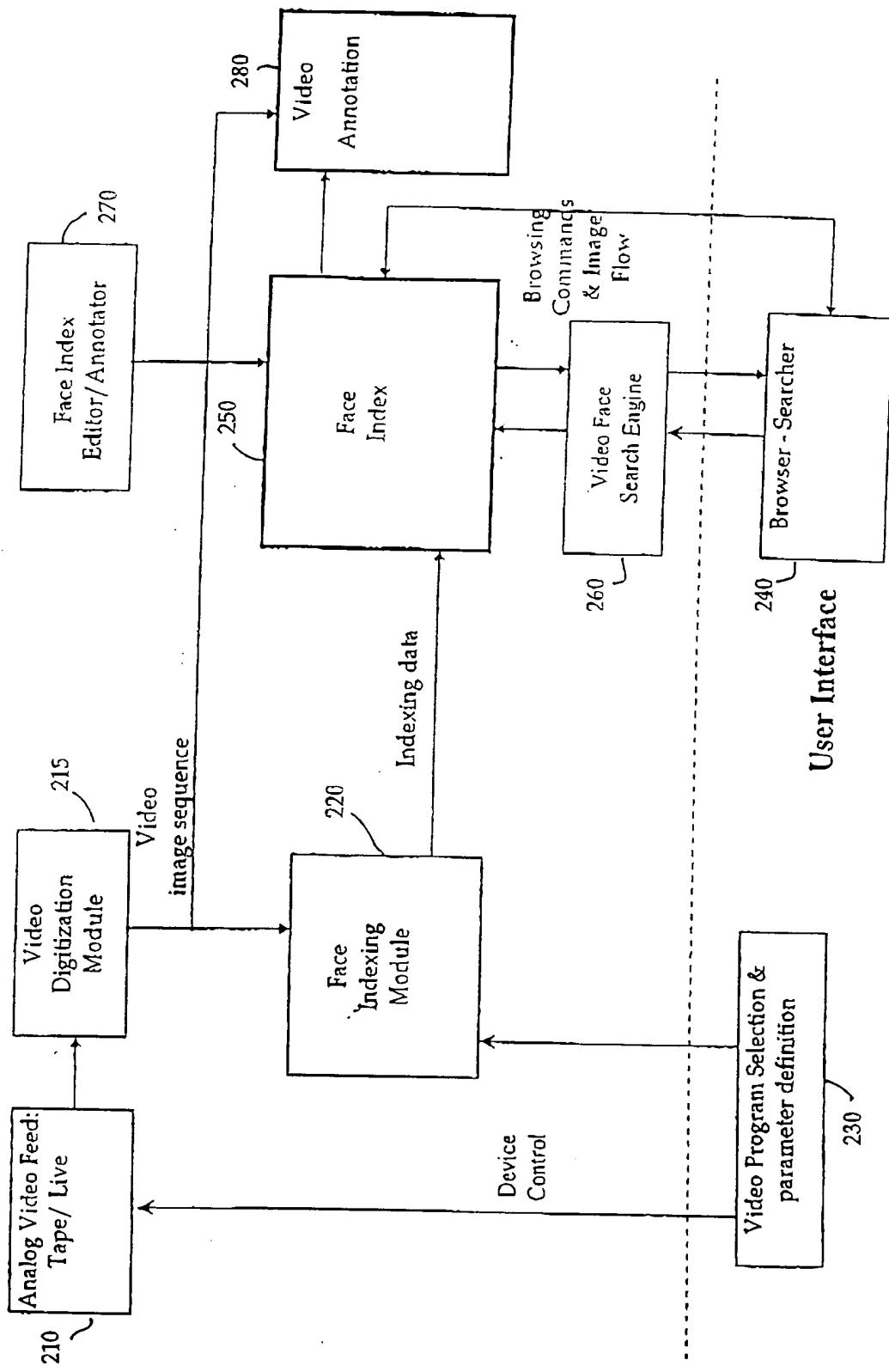


FIG 2

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Face Label	Face Track	Frame Index	Face Track Cnord.	Face Charac Views	Face Frontal Views	Face Charac data	Audio Charac Data	Annotation (charac in text, keywords)
F1	T1	(F <sub>s</sub> , F <sub>e</sub> )	{X(F <sub>s</sub> ), ..., X(F <sub>e</sub> )}	(C)	(F)	{F <sub>g</sub> , F <sub>f</sub> , F <sub>u</sub> }	{F <sub>a</sub> }	
	T2							
F2								

FIG 3

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Start Frame	F <sub>S</sub>
End Frame	F <sub>E</sub>
Face Track Coordinates	$\bar{X}_{F_S}, \dots, \bar{X}_{F_E}$
Face_Characteristic_VIEWS	
Face_Frontal_VIEWS	
Face_Characteristic_Data	
Audio_Characteristic_Data	

Face Track Structure

FIG 4

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Face Label	Face Track	Frame Index	Bounding Rectangle	...	Annotation
A	A1	43 - 76	Per face	...	Bob
	A2	77-143	...	...	Bob
B	B1	77-143	R_k	...	Bill; Opposition leader candidate
	B2	144-158	R_{k+1}	...	Bill; Opposition leader candidate
C	B3	159-170	...	...	Bill; Opposition leader candidate
	C1	159-170	R_n	...	Smith; Labor party candidate
C	C2	171-183	...	...	Smith; Labor party candidate

FIG 5

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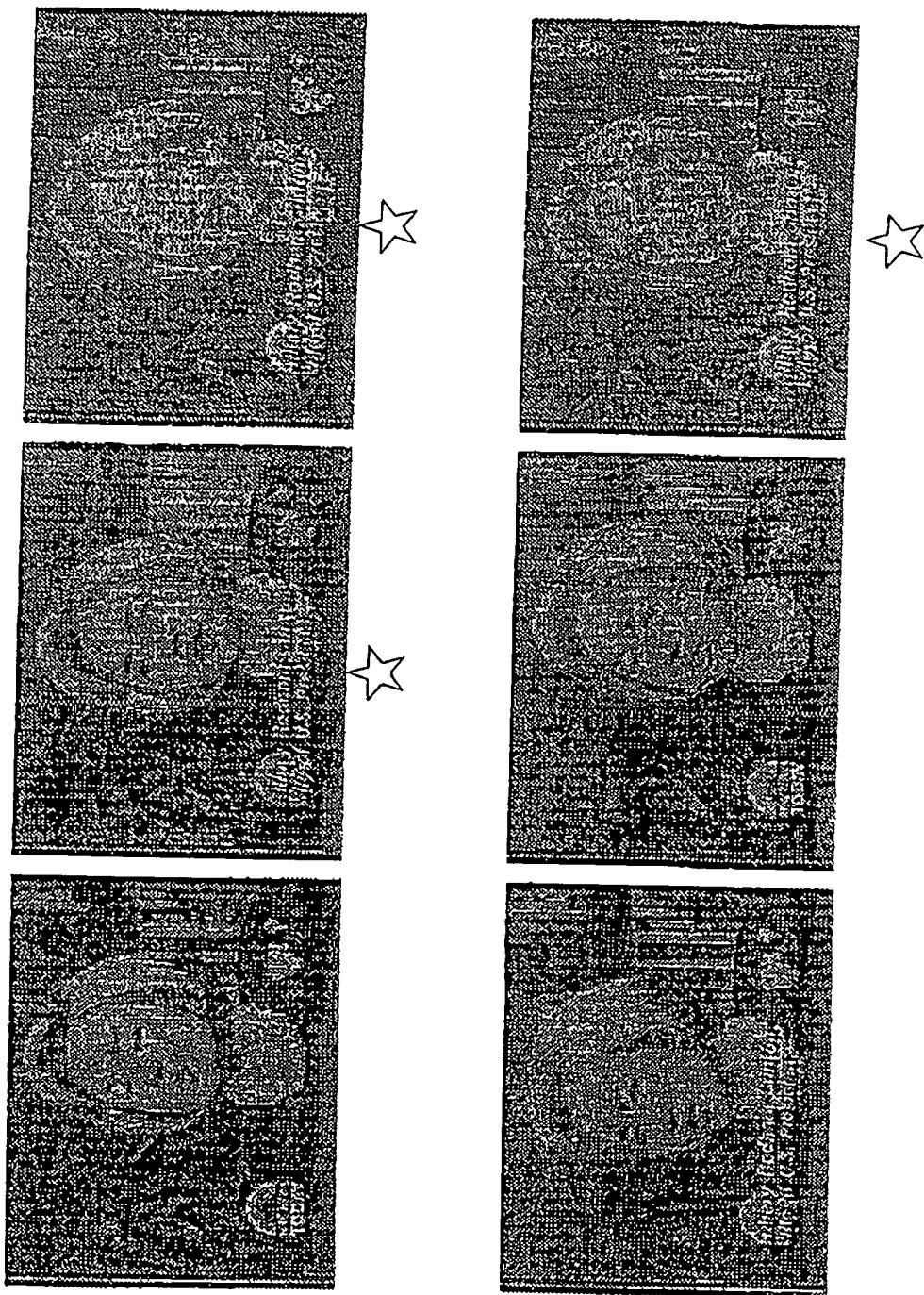


FIG 6

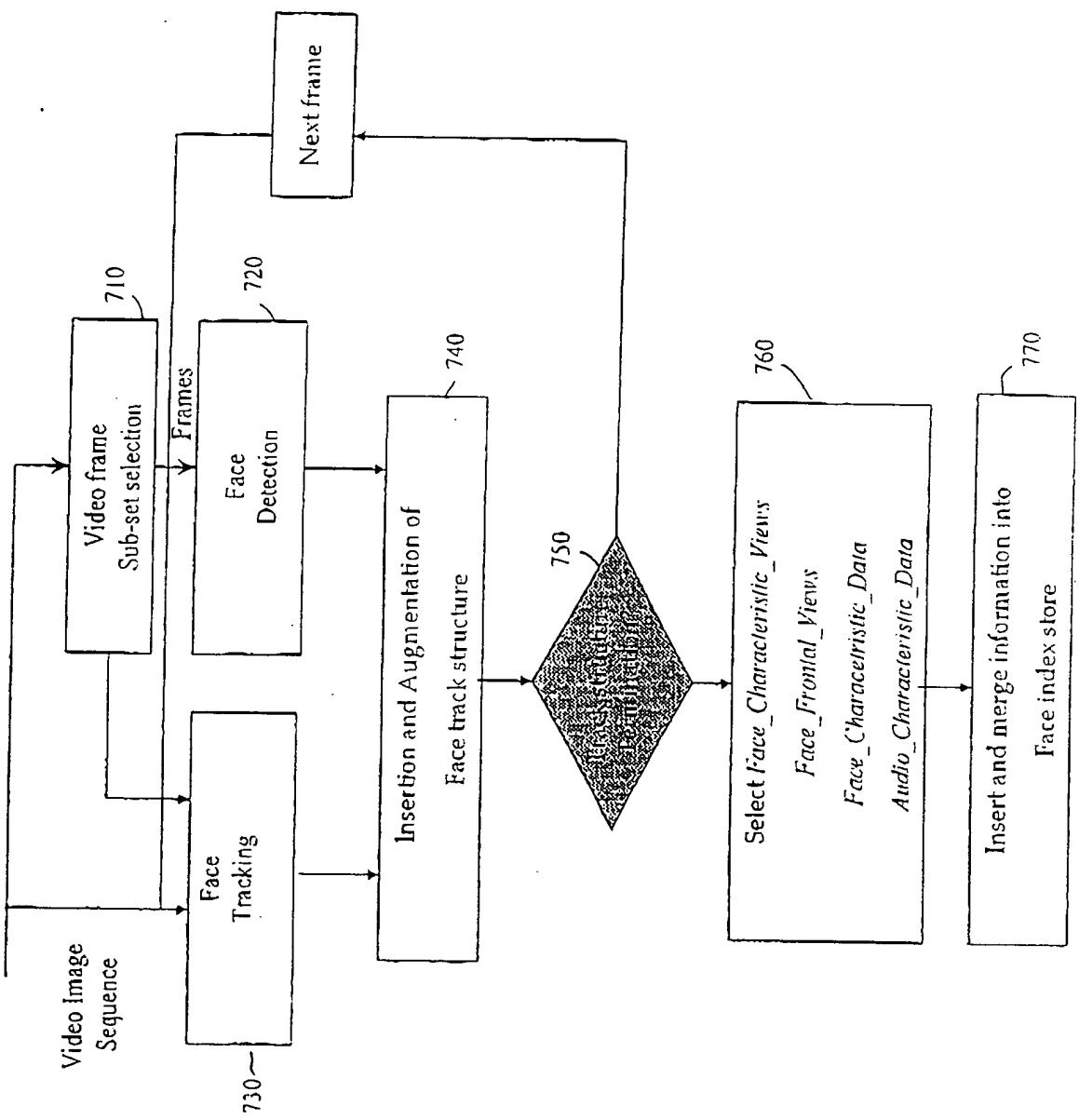


FIG 7

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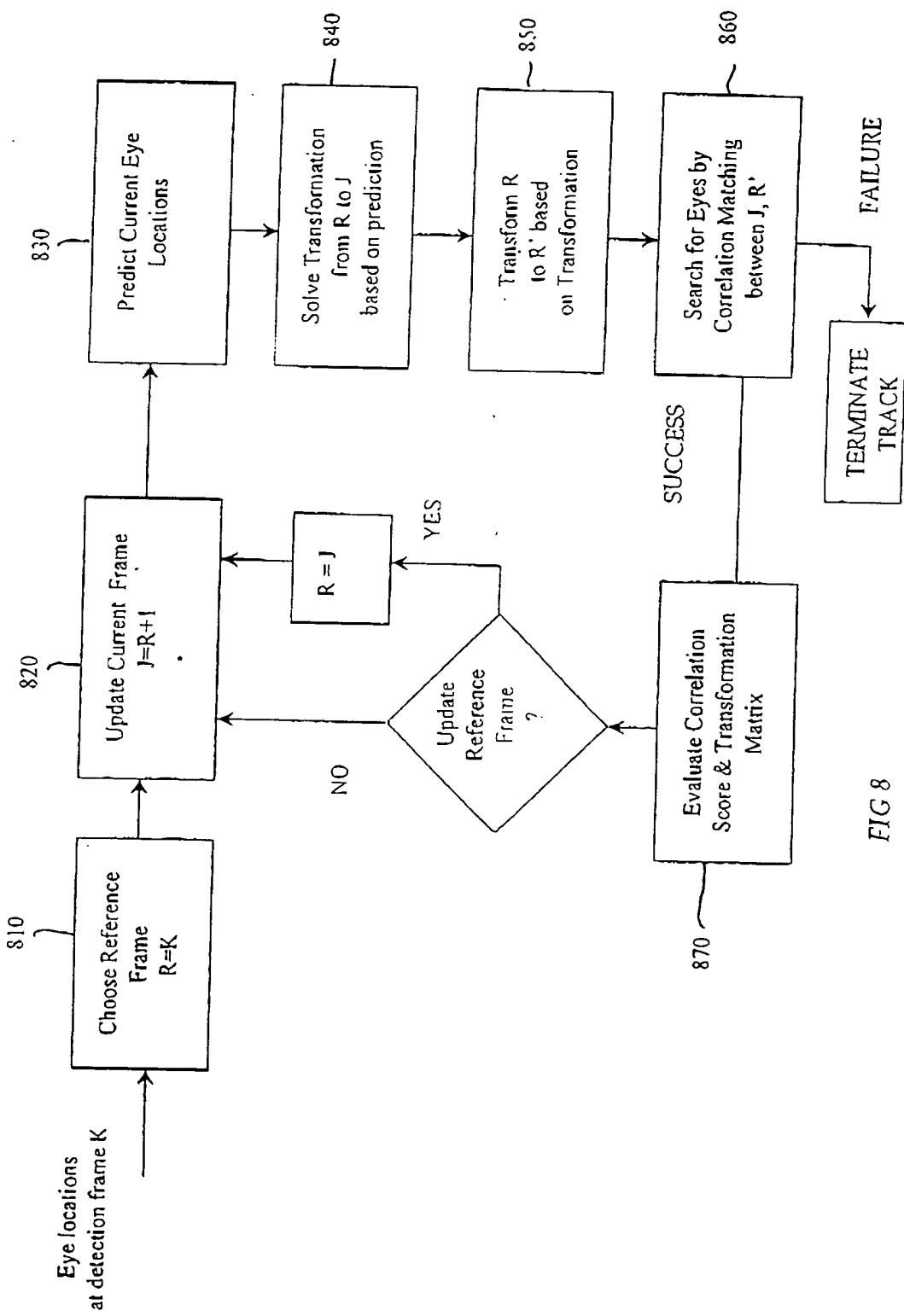


FIG 8

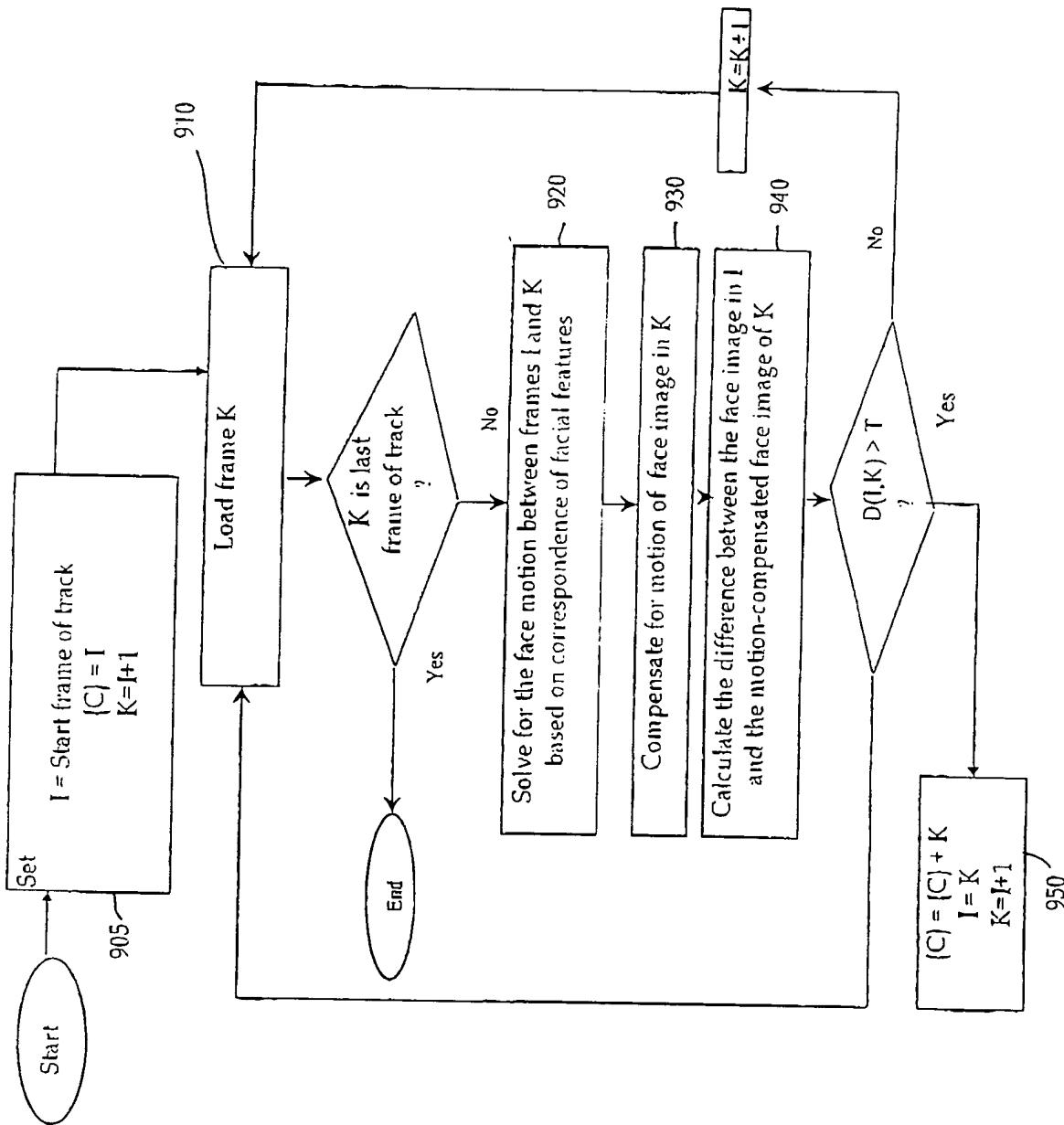


FIG 9

Figure 10a

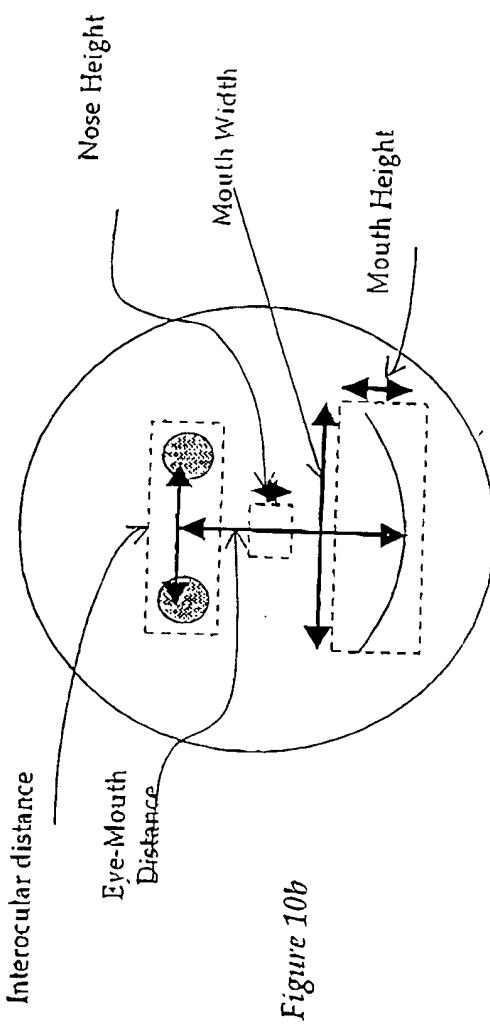
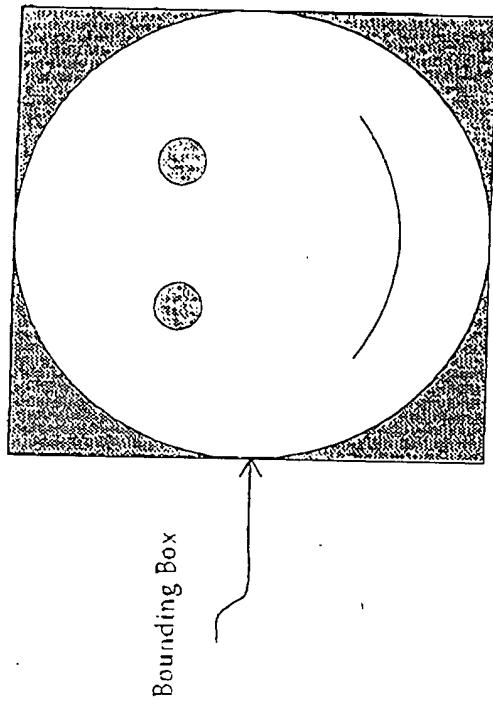


Figure 10b

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Fg	Ff	Fu
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Fg:  
Face Templates  
Ft:

Feature Templates

F1	F2		Left eye	Right eye	nose
			mouth	chin	

Ft:  
Geometrical Features  
Fu:

Interocular distance (between eye distance)	Vertical projection: Eye-nose	Vertical projection: Eye-mouth	Chin width

eyeglasses	bold	Hair color	
Yes/no	Conf.	Yes/no	Conf.

FIG 11

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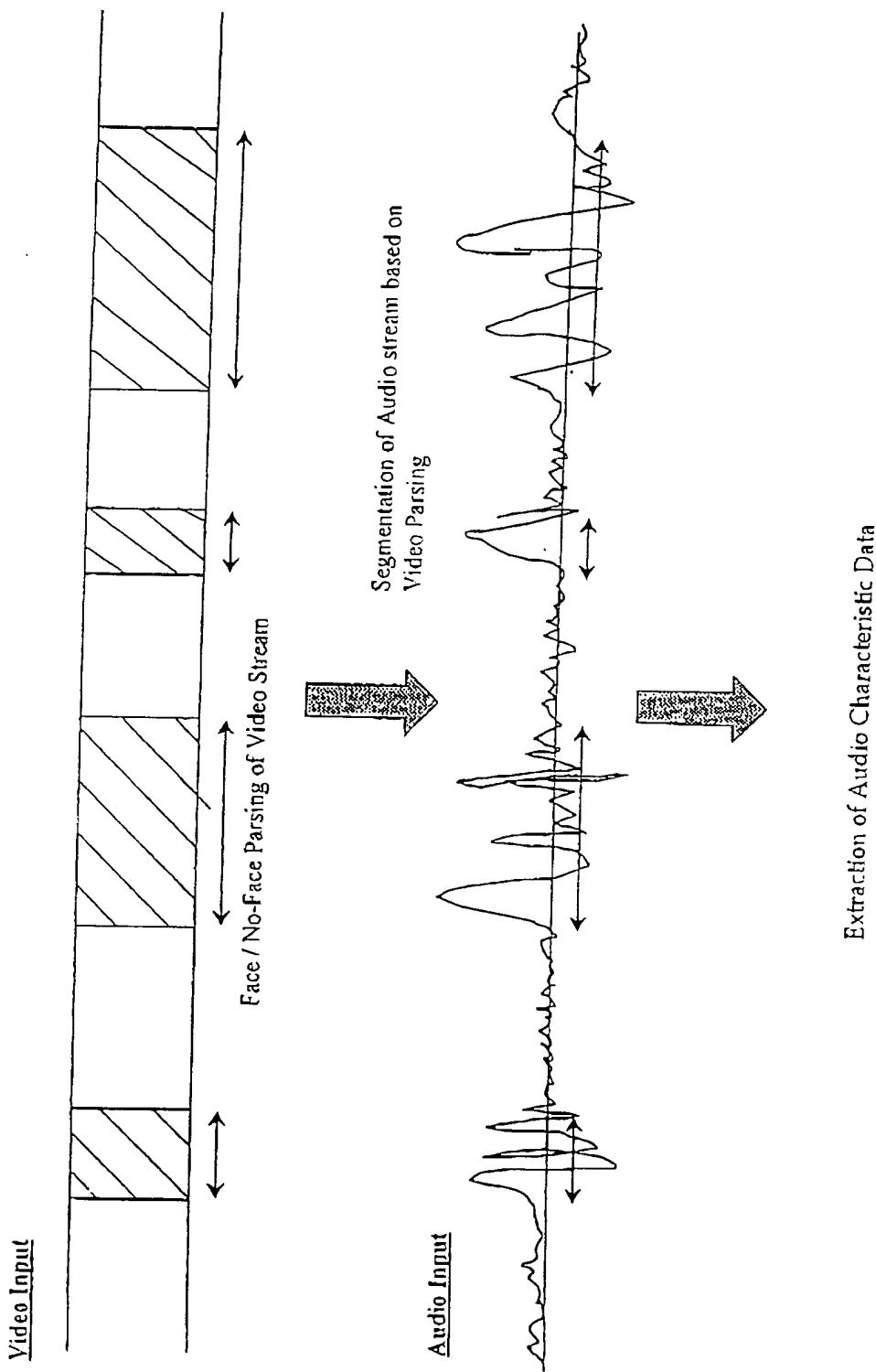


FIG 12

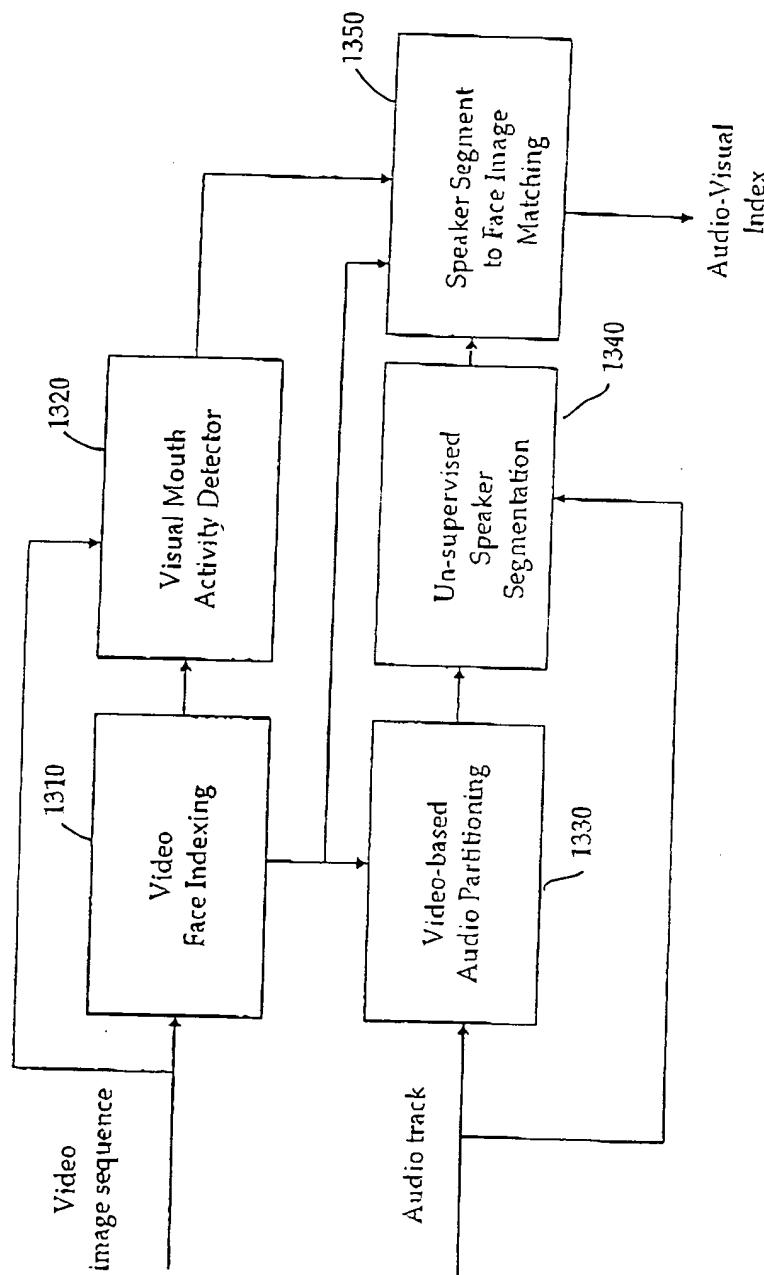


FIG 13

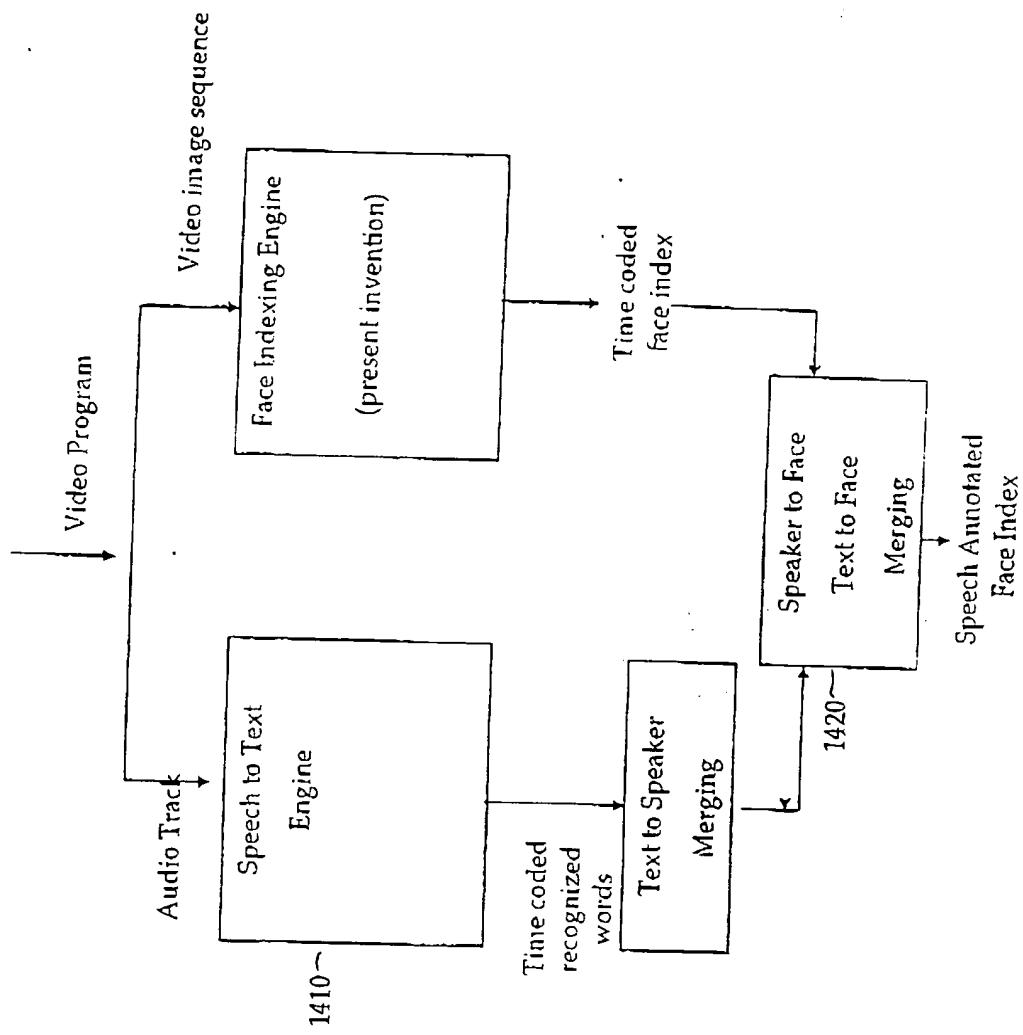


FIG 14

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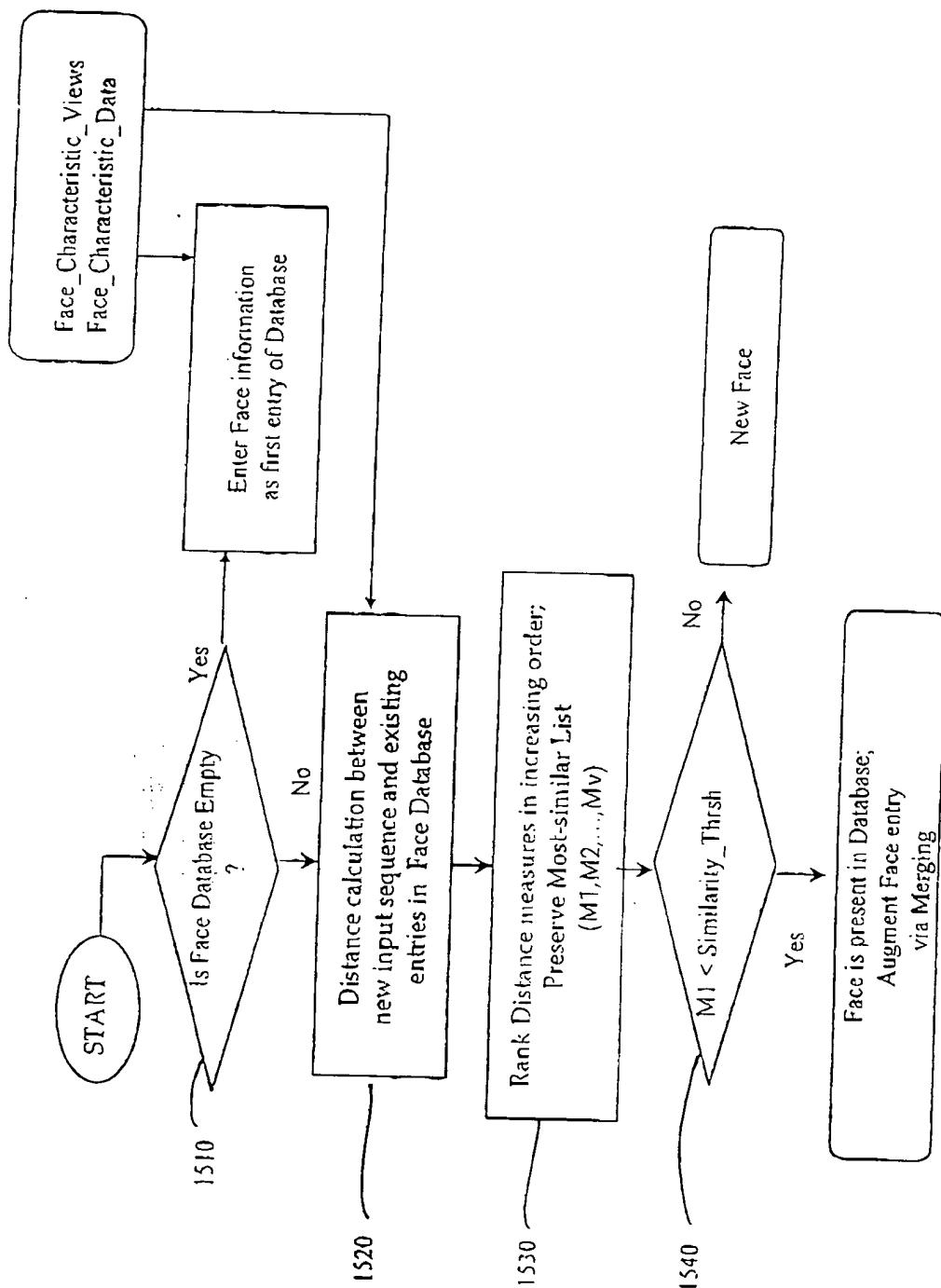


FIG 15

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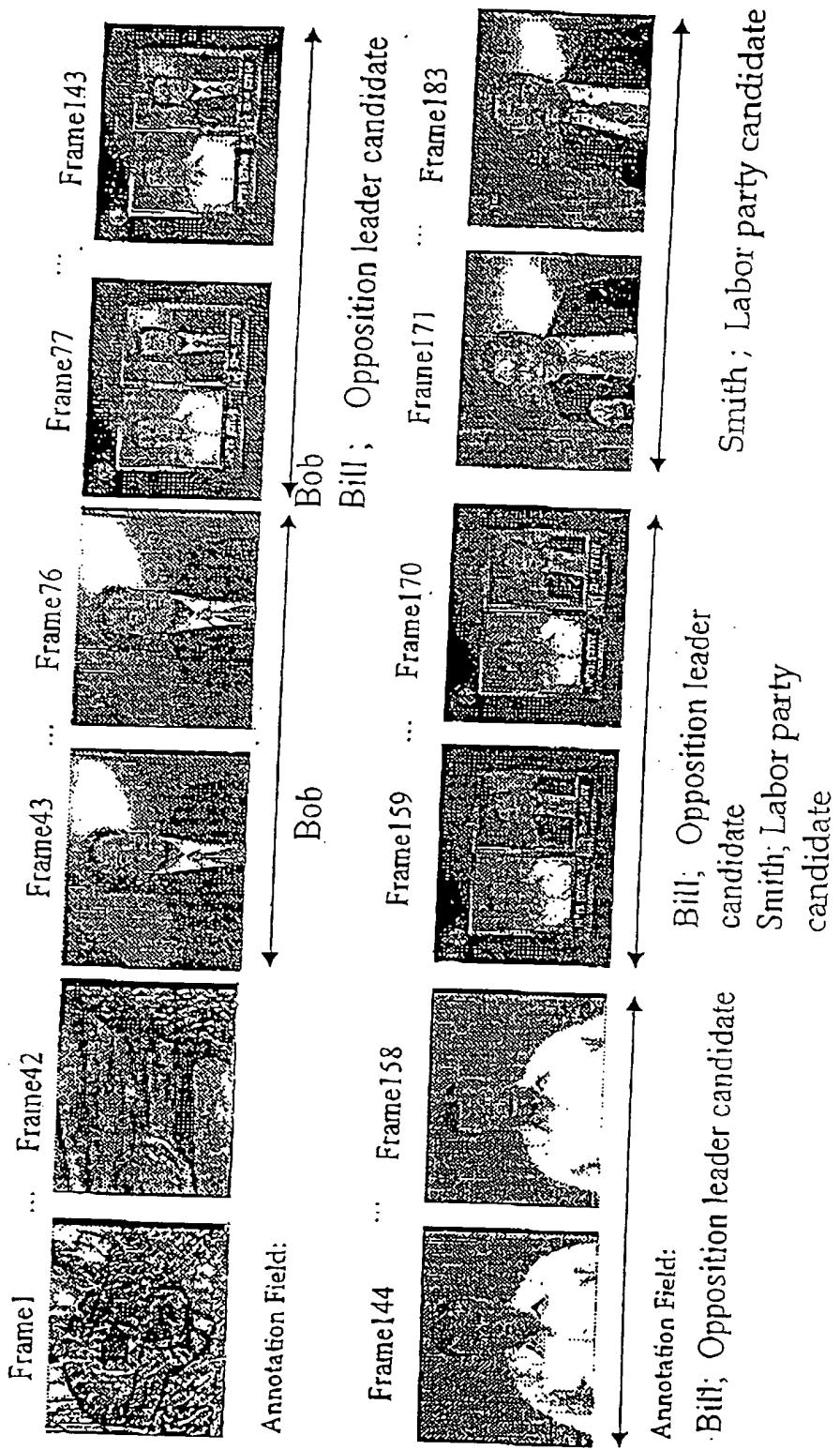


FIG 16

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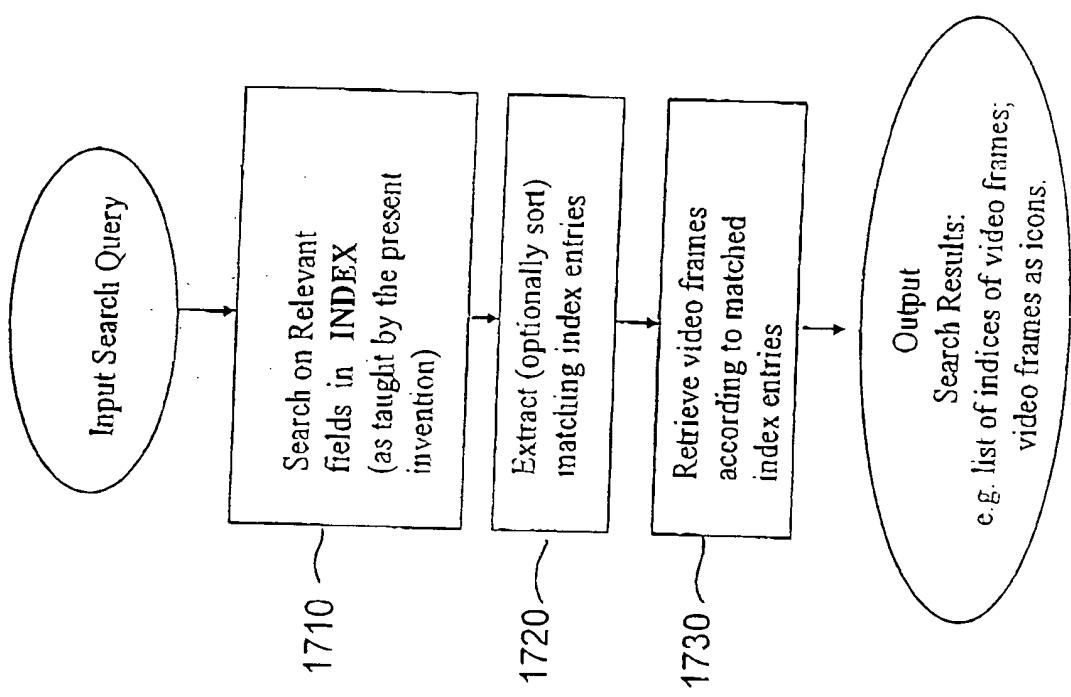


FIG 17